

Special Issue

Emerging GaN Technologies: Innovations, Applications, and Future Prospects

Message from the Guest Editors

As a cornerstone of wide-bandgap semiconductors, Gallium Nitride (GaN) continues to drive revolutionary advancements in modern power, high-frequency, and extreme-environment electronics. This Special Issue will collect cutting-edge research and comprehensive reviews, establishing a closed-loop academic narrative spanning a range of topics from fundamental crystal growth to terminal switching power applications. We aim to provide a high-level cross-disciplinary platform for scholars, researchers, and industry pioneers to showcase breakthrough concepts and foster collaborative innovation in next-generation high-performance and high-reliability GaN technologies. This Special Issue will cover (but is not limited to) the following topics:

- GaN Material Growth and Physics;
- Advanced Device Fabrication and Process Integration;
- Emerging Device Designs and Architectures;
- Device Reliability Physics and Failure Mechanisms;
- System-Level Applications in Switching Power Supplies.

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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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